YAM

# MAY - 9 1990 B & C EQUIPMENT COMPANY

19009 16TH AVE.S. SEATTLE,WA 98188

(206) 433-1015

#### INVOICE

NO.	33129
DATE	5-3-90
YOUR	ORDER NO. LESLIE

SCANNED	SC	A	N	N	E	D
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0	ALASKA MAR	ING LINES
L D	7100 2 NA AVE	ς.ω.
T	SEATTLE, INA	98106

Г О С -	7/00	2	DAVE	Sω	
	5615				WAY
I O					

Description:		40			
2" AVE SW - 1	ETRO-TITE TESTED	(2) 10,00	O GALLON	TANKS - U	JORK WAS
f	PERFORMEN ON SU	BONY. B	OTH TANKS	FAILED, TE	57.
p	OFFERENTIAL ON	STRAIGHT/C	OVER TIME	15 CHARGE	70.
5615 W. MARGINAL	WAY - PETRO-TI	TE TESTED	(1) 10,0	00 AND (1	3,000
	GALLON TANKS.				
	BOTH TANK FAILED	TEST, PA	CODUCT LIN	SE IS TIG	HT ".
MODEL & SERIAL #					
Parts used Quantity Number			Price	Amount	
4	PETRO-TITE TANK	TESTS	550,00	2200.00	
	PETR-TITE LINE	TEST		100,00	
	WELLPOINT			135.00	
1 633TCP	FILL ADAPTOR			84.89	
	FUNCTIONAL ELE	4 ENT		7/.89	
					2591.78
OUTSIDE SERVICE					
MILEAGE 50 MILES	. 35 ¢ PER MILE	TOTAL			WLLUPED
	LABOR & TRAVEL	DATE			
CUSTOMER	1/2 2 1/2	4/20/90	35.00	INCLUDED	
	10 9 1	4/23/90	35.00/52.50	INCLUDED	
	0.7 9 9 1	4/29/90	17.50	175.00	
SERVICEMAN					175.00

TERMS: NET 30 DAYS INTEREST: 11/2% PER MONTH 18% PER ANNUM FROM INVOICE DATE ON ALL LATE BALANCES

Terminals Facilities Expresse

SUBTOTAL 8.1 % TAX TOTAL 2766. 78 224.11

(990.8

### DATA CHART For Use With

SKA MAKIM		•	•		Petro Tite					
20	\ <sub>~</sub>	1 LOCA	TION: ALASKA MAR Street No.	INF LIN	rks 5	1615 W.	MAUGIN	or Way	SKATTLA WA	Telephone No.
A Name	OWNER		R: SAWA	and/or Coiner			City	·	3.614	retegnione (40.
SK	.   0		Name	,	ddi+ss		F	lepresentative	Position	Talephone No.
414		3 OPER	ATOR: Saus		Dealer, Mgr. or	Other	Address (II	different than Locatio	n)	Telephone No.
4		4 REAS	ON FOR TEST CKETIFI	CATION			·····			
	Z									
State City	State	5 TEST	REQUESTED BY:	Kame Name		Position	5 KA N	AHEIME,	CIWKS Billing Address	
4	2	6 SPEC	AL INSTRUCTIONS:							
3 %		ł .	RACTOR OR COMPANY MAKING	TEST BY	Fou	40/11/2·	T 00		JOHN D. COX	4/45/2784
0 1	MH	1	TANK TEST TO BE	(TOP)	MAKE AND TY	PE OF	1			
8 7	Day 25 DATE OF TEST	MAD	E WITH THIS LINE TEST?	□ NO	PUMP OR DIS	PENSERS	Kue	Melent		
Year Mo	Da O	10 WEAT	HER COL	TEMPERATURE IN	TANKS	F *C	COVER OVER LINES		APPROXIMA BURIAL DE	<b>7</b> 7
			10 100 05 7507 00005010	14	PRESSURE		15 VOLUME	Concrete	Black Top, ofc.	RESULTS
11 IDENTIFY EACH LINE AS TESTED		TIME LITARY)	13 LOG OF TEST PROCEDUR AMBIENT TEMPERATURE WEATHER, ETC.	,	osi OR kPa		READING	NET CHANGE	CONCLUSIONS, REPAI	RS AND COMMENTS
	_			BEFORE	AFTER	BEFORE	AFTER	0.,,,,,,,,,,	00 100	
DIESEL									B.B. +.012	
	0.0	an	5-4.24	_	50	-				
· · · · · · · · · · · · · · · · · · ·	•	(:30	START TEST							
		:45			50.	. 0350	.0330	-,0020	,	
	09	100		50	50	, 0330	.0330	+,0000	T1947	<u>.</u>
		:15		50	50		. 0330	+,0000	-,0020	
						, 0330			-,0020	GP+
· A ALL CANADAN AND AND AND AND AND AND AND AND A	_	;30		50	50	10330	. a330	t.0000,		
. 4			BLAND BACK	50	0	,0330	,0450	4011		
			DANNE DACK	150	<del> </del>	10000	1,0720	7,012		
<i>p</i> *										
	1		1	4	1	1	1	1		

PLEASE PRINT						
1. OWNER Property	ALASKA M	ARINE LINI	95 7/00 .		W, SKATTLE	
Tank(s)	Name SAWA		Address	Zip	Representative	Telephone
	Name	,	Address	Zip	Representative	Telephone
2. OPERATOR	SAUL Name		Address	Zip		Telephone
3. REASON FOR TEST (Explain Fully)	CERTIFICAT	ion				
4. WHO REQUESTED TEST AND WHEN	LKSLIK Name		ALA	TSUM MARIN Company	or Affiliation	4-26-90 Date
		,	Address	Zip		Telephone
5. TANK INVOLVED	Identify by Direction NOKT14	10,000	Brand/Supplier ACE ?	Grade Rugulan	Approx. Age	Steel/Fiberglass
Use additional lines						
for manifolded tanks						
	Location	Cover	Fifis	Vents	Siphones	Pumps
6. INSTALLATION DATA	CENTRAL	27" CONGREST	1-4"	1-2"	Novis	1- SUCTION
	North inside driveway, Rear of station, etc.	Concrete Plack Top	Size, Titefill make, Drop tubes, Remote Fills	Size, Manifolded	Which tanks?	Suction, Remote, Make if known
7. UNDERGROUND WATER	Depth to the water table in	om grade Belo- to	ann Botton	· · · · · · · · · · · · · · · · · · ·	is the water over the tar	ık?
8. FILL-UP ARRANGEMENTS	Tanks to be filled	hr		ATTENDED TO THE PARTY OF THE PA	Name	Telephone
	Terminal or other contact for notice or inquiry	Compa	ny		Name	Telephone
		Обпра	***		14dite	releptione
9. CONTRACTOR, MECHANICS, any other contractor involved						
10. OTHER		,,				
INFORMATION			///			
OR REMARKS	Additional information on	any items above. Officials	or others to be advised when	n testing is in progress or co	mpleted. Visitors or observers	present during test, etc.
11. TEST METHOD	PETRO TITE		☐ PETRO CO	)MP	QUICK CH	ECK 2000
11a. TEST RESULTS			ems in accordance with d test charts with resul	test procedures prescr ts as follows:	ibed for	
	Tank Identification	Tight	Leakage I	ndicated	Date Te	
	10,000 GAS	, No	2			-29-90
12. SENSOR	13. CONTRACTO	R CERTIFICATION				
CERTIFICATION	T <b>e</b> chnic	ians	-1 -			C EQUIPMENT
Date	JOHN D.	cox	81-			009 - 16th Ave. S.
351 Serial No. of Thermat	1. John A.  Certification # 414	512754	\ (	Testing Contracto		attle, WA 98188
Sensor	g Certification #	· · · · ·			Address	206) 433-1015

27.	Sensor Calibration 14685/685		PR	ROSTATIC ESSURE DNTROL	31. <sub>vo</sub>	LUME MEASUREME RECORD TO .001 G		34.	ERATURE COM USE FACTOR	PENSATION	38. NET VOLUME CHANGING EACH READING	39. ACCUMULATED CHANGE
28.	LOG OF TEST PROCEDURES	29.	Standpi		32. Pro	duct in	33. Product	35.	36.	37.	Temperature	UINIOE
DATE 4 -79-90	Record details of setting up and running test. (Use full length of line if needed.)	Reading No.		ches Level to	Gra	duate	Replaced (-)	Thermal	Change Higher +	Computation (c) × (a) =	Adjustment Volume Minus	At Low Level compute
TIME (24 hr.)	Regular COAS	:	of Reading	which Restored	Before Reading	After Reading	Product Recovered (+)	Sensor Reading	Lower - (c)	Expansion + Contraction -	Expansion (+) or Contraction (-) #33(V) — #37(T)	Change per Hour (NFPA criteria)
	SET-UP EQUIPMENT / TOPPES O	FF	ano B	LFO	AIR AT	Pamp	STAN	T TEST	_			
	•					•						
12:00	START CIRCULATION											
13:20	API SAMPIK 1st SENSOR READING											
:25	1st stasoe Reaping			42				09572				A=0231
: 40	START HIGH LEVEL TEST	1	37.0	42			7,425			+,092	-,517	
155		2	37,0	42	.995	,570	-,425	582	+6	+, 139	-,564	
:10	SLIGHT BOUNCE IN S/P	3	37,0	42	,570	.140	-, 430		1	+.116		
:15		4	37,0	42	.850	,425	7.425	593	+6	+.139	-, 564	
:							<u> </u>		·			
	STOPPED TEST HIGH	EVE	L AF	TRA	DNE	HOUR	SHOW'S	A CON	SISTED	T FAI	ling	
	TRENA											
							-					
							<del> </del>					
											***************************************	

14. ALIACIEIA MARINE UI		100 ZNO AUR SC	U. SFIRTER	<b>₩</b> State	4-29-90 Date of Test
15. TANK TO TEST  NOCTH  Identity by position  RKY WAR  Brand and Grade		IEF DIAGRAM OF TANK FIELD	16. CAPACITY  Nominal Capacity /0,000  Gallo  By most accurate capacity chart available /0,3	From  Station Char  Tank Manufa  Company Er  Charts suppl	t acturer's Chart ACS
17. FILL-UP FOR TEST				Sallons	Total Gallons ea. Reading
Stick Water Bottom before Fill-up in.	30 Gallons	45 Tank Diameter		Inventory in Tank Water Bottom	10,310
18. SPECIAL CONDITIONS AND PROCEDUI	RES TO TEST THIS	TANK Water in tank Line(s)	) being tested with LVLLT	Top off equipment	+ 10
See manual sections applicable. Check below and record pr	rocedure in log (27).	High water table in tank of	excavation	Total Quantity	10,290
Use maximum allowable test pressure for all tests. Four pound rule does not apply to doublewalled tanks. Complete section below:		19. TANK MEASUREMENTS F TSTT ASSEMBLY Bottom of tank to grade*	140 in.	21. VAPOR RECOVERY SYS	STEM Stage   Stage
1. Is four pound rule required?	Yes No 🔀	Add 30" for "T" probe assy	11/8	24b. COEFFICIENT OF EXP. RECIPROCAL METHOL	0 /.
2. Height to 12" mark from bottom of tank	155 in.	20. EXTENSION HOSE SETTIN	45	Type of Product	
3. Pressure at bottom of tank $47''$	4,836 P.S.I.	Extend hose on suction tube 6" or more below tank top	in.	Temperature in Tank After Circulation	
4. Pressure at top of tank YZ"	2.366 P.S.I.	"If Fill pipe extends above grade, use top		Temperature of Sample,	107
Depth of burial	_45in.	USE WITH THERMAL SENS( PN5039 (Blue Box) 22. Thermal-Sensor reading after circul	AC 572	Observed A.P.I. Gravity	59.5
Tank dia.	<u>95</u> in.		60 - 51 Between	Reciprocal 1483 Page  10, 290 + 148  Total quantity in Reciprocal	
Water table to tank bottom  NOTES:	in,	23. Digits per °F in range of expected c	digits	full tank (17)	this tank per °F Transfer to Line 26a.
	1	24a. IF USING THERMAL S OR QC-2000 WHICH R PER °F TRANSFER 100	EAD 1000 DIGITS 00 TO LINE 26,	24c. FOR TESTING WITH W	ATER see Table C & D
The above calculations are to be used for dry soil or	onditions to	DIGITS PER °F IN TES	ST RANGE.	Water Temperature after Circulation Table C from Thermal Sensor  Coefficient of Water Table D	J A **
establish a positive pressure advantage, or when using the rule to compensate for the presence of subsurface water	four pound			Added Surfactant? Yes No	Transfer COE to Line 25b.
area.  Refer to N.F.P.A. 30, Sections 2-3.2.4 and 2-7.2 an manufacturer regarding allowable system test pressure:		25. (a)  Total quantity in full tank (17)	× (b)  Coefficient of expansion for involved product	= (C)  Volume change in this tank per °F	gallons
		26. (a) 6,9386378 Volume change per °F (25 or 24		= ,0230519  Volume change per digit Compute to 4 decimal places	test

PLEASE PRINT						
1. OWNER Property	ALASKA N	respiese Lin		Zwo Ach	S. G. SKATTIK Representative	WA Telephone
Tank(s)	Name Name			Zip	Representative	Telephone
2. OPERATOR	SAW.r Name		ddress	Zip		Telephone
3. REASON FOR TEST (Explain Fully)	CHRTIFIC	ntia	A			
4. WHO REQUESTED TEST AND WHEN	LAS LIF Name		ALAGRA	Company	V or Affiliation	4-26 90 Date
		<del></del>	·	Zip		Telephone
5. TANK INVOLVED	Identify by Direction  Sout H	Capacity	Brand/Supplier  ACL?	Grade DMM	Approx. Age	Steel/Fiberglass
Use additional lines for manifolded tanks						
6. INSTALLATION DATA	Location Contract Not with	Cover 27 Comcent	Fils 1-4"	Vents / / / / / / / / / / / / / / / / / / /	Siphones	Pumps   - SUCTION
	North inside driveway, Rear of station, etc.	Concrete Pack Top	Size, Titefill make, Drop tubes, Remote Fills	Size, Manifolded	Which tanks?	Suction, Remote, Make if known
7. UNDERGROUND WATER	Depth to the water table fro	m grade Brow to	over Bottom		Is the water over the tank?	
8. FILL-UP ARRANGEMENTS	Tanks to be filled		_Date Arranged by d who to provide? Consider	NO Lead.	Name	Telephone
	Terminal or other contact for notice or inquiry	Company	,		Name	Telephone
CONTRACTOR,     MECHANICS,     any other contractor     involved						
10. OTHER INFORMATION OR REMARKS		Off			impleted. Visitors or observers pres	
11. TEST METHOD	PETRO TITE	my rems above. Officials of	PETRO COM		QUICK CHEC	
11a. TEST RESULTS			ns in accordance with te test charts with results		ribed for	
	Tank Identification	Tight	Leakage India		Date Tested	
	10,000 Dusa	ch NO		555 6 P F	1 4	-25- 90
12. SENSOR CERTIFICATION	13. CONTRACTOR	ns	سے ایسے			QUIPMENT 16th Ave. S.
1983	1. JOHN B Certification # 414		-7/8	Testing Contracto	r or Company. By: Spattle,	WA 98188
<sup>t</sup> Serial No. of Thermal Sensor	Certification #				(206) Address	433-1015

27.	Sensor Calibration // 600 / 601		PR	ROSTATIC ESSURE ONTROL	31. <sub>vo</sub>	LUME MEASUREME RECORD TO .001 G		34,	ERATURE COM USE FACTOR	PENSATION (a)	38. NET VOLUME CHANGING EACH READING	39. ACCUMULATED CHANGE
28. OATE	Record details of setting up and running test. (Use full length of line if needed.)	29. Reading No.	Standpi in In Beginning	pe Level ches Level to		duct in Iduate	33. Product Replaced (-)	35. Thermal	36. Change Higher +	37. Computation (c) × (a) =	Temperature Adjustment Volume Minus	At Low Level compute
429-90 TIME (24 hr.)	DIESEL		of Reading	which Restored	Before Reading	After Reading	Product Recovered (+)	Sensor Reading	Lower - (c)	Expansion + Contraction -	Expansion (+) or Contraction (-) #33(V) — #37(T)	Change per Hour (NFPA criteria)
	SET-up Faurpmet	TOPF	1.0-0	FF	pno B	UND A	R AT	Pump	57	ANZ TO	57	
					-							
13:00	STAUTING CIRCULATION											
14:30	APT SAMPLE			42				4				A=.0151
;35 ;50	IST SKUSOR RASPING STURT HIGH LRUKE THST	<del>                                     </del>	41,6	42	.715	,680	-035	10 27 <b>5</b> 283	+8	/ /2/		H 0151
15:05	STURE HEIGH UNDER 1731	2	41.5	42	.680	. 640	7,040	291	+8	+,121	-,156 161	
;20		3	41.4	42	,640	1595	-,045	298	+7	1,106	151	
;35		- <u>S</u>	41,4	42	,595	. 550	7045	305	+7	+.106	151	
:50		5	41.3	1	,550	. 500	7,050	313	+8	1.121	-,/7/	
16:05		6	41.3	42		, 450	-,050	321	+8	+, 12)	-, 171	
;20		7	41,4	42	, 450	,405	-,045	328	+7	1.106	T, 151	
;35	·	8	41.6	42	,405	.370	-,035	335	47	+.106	-,141	
:36	DROP TO LOW LAURE			12								
:50	Re bound	1		12				343	+8			
17:05	fa boums	2		12				352	+9			
;10	1ST 5 Min Resoing	1	11.9	12	, 440	,435	7,005	354	+2	+, 030	7 035	
:15		ン	11.9	12	, 435	,430	7,005	367	+3	+,045	-,050	
:20		3	11.9	12	,430	, 425	005	260	+3	4,045	-,050	
;25		4	11.9	12	,425	, 420	-,005	363	+3	1	l	
:30		5	11.9	12	,420	, 415	-,005	366	+3	+.045	7,050	
:35		6	11,9	1/2	,415	, 410	7005	369	+3	+1045	-,050	285
:40			11.9	12	,410	. 405	7005	372	+3	<del>                                     </del>	-,050	
1,45		8	11.9	12	.405	, 400	7005	375	+3	7.045	7050	
.50		9	11.9	12	.400	.395	-,005	378	1	1	-,050	
155		10	11.9	)2.	345	. 390	-,005	381	+3	+1045	-,050	
18:00		11	11,5	12	,390	. 385	-,005	383	+2	+1030	-,035	

;05		12	11,9	12	. 385	.380	-,005	385	+2	+.030	-,035	-,555
	STOPPRO TEST											
	AFTHA ONE HOUR OF LOW	LFL	EL	CONS	STENT	RMARU	9 540	WA	PATE	: -, 55	5 GAH	-
						pays no difference in the same state of the same						
							***************************************					
						<b>** *</b> ******************************						
	-											
****												
P-1-1-1												
		L	Statement					<u> </u>				

#### P-T Tank Test Data Chart **Additional Info**

	-, 555
1.	Net Volume Change at Condision of Precision Testgph Signature of Tester:
	Signature of Tester:
	Date: 4-29-90

#### Statement:

Tank	and	product	handling	system	has	been	tested	tight
			Precision					
regula	itory	agency.	This is not	intende	d to i	ndicat	e permi	ssion
of a le	ak.							

OR

/	
Tank and product handling system has failed the tank tightn	es
test according to the Precision Test Criteria as established	j b
regulatory agency.	

OR

Test invalid due to environmental or mechanical factors beyond
control of the testing equipment.

It is the responsibility of the owner and/or operator of this system to immediately advise state and local authorities of any implied hazard and the possibility of any reportable pollution to the environment as a result of the indicated failure of this system. The manufacturer of this test method does not assume any responsibility or liability for any loss of product to the environment.

Tank Owner/Operator	

Date	

14. ALASKA WATEINE LINES  Name of Supplier, Owner or Dealer	7100 ZNE FUEL SW. Address No. and Street(s)	SEATLE City	₩ <b>A</b> State	4-29-90 Date of Test
15. TANK TO TEST  Source Identity by position  DIPSAL  Brand and Grade	15a. BRIEF DIAGRAM OF TANK FIELD	16. CAPACITY  Nominal Capacity 10,000  Gallons  By most accurate capacity chart available 20	Company	ofacturer's Chart ACE Engineering Data plied with Tank Tester
17. FILL-UP FOR TEST  Stick Water Bottom 2 in. 10 to 16"	) 95 Gallons Tank Diameter		Inventory in Tank Water Bottom	Total Gallons aa. Reading  /// 3///
18. SPECIAL CONDITIONS AND PROCEDURES TO  See manual sections applicable. Check below and record procedure in  Use maximum allowable test pressure for all tests.  Four pound rule does not apply to doublewalled tanks.  Complete section below:	19. TANK MEASUREMENTS F TSTT ASSEMBLY	FOR	Top off equipment  Total Quantity  21. VAPOR RECOVERY S	10 10, 310 (STEM Stage 1 Stage 11
1. Is four pound rule required?  2. Height to 12" mark from bottom of tank  155	Tank top to grade*	30 in. 168 in.	24b. COEFFICIENT OF EX RECIPROCAL METHOM Type of Product	<u>√)1/5-4</u> H
3. Pressure at bottom of tank  4. Pressure at top of tank  Depth of burial  Tank dia.	below tank top	of fill.  DR  ation	After Circulation	60,0 ., + 6,8 ., 32.5 20.4 36 16 . 4,652527
Water table to tank bottom  NOTES:  The above calculations are to be used for dry soil conditions the establish a positive pressure advantage, or when using the four poun rule to compensate for the presence of subsurface water in the tan	d	ENSOR DTS-2000 EAD 1000 DIGITS 00 TO LINE 26,	Total quantity in full tank (17)  24C. FOR TESTING WITH V  Water Temperature after Circulation Table C from Thermal Sensor  Coefficient of Water Table D	this tank per *F Transfer to Line 26a.  WATER see Table C & D  *F
Refer to N.F.P.A. 30, Sections 2-3.2.4 and 2-7.2 and the tan manufacturer regarding allowable system test pressures.	(0)	× (b)  Coefficient of expansion for involved product  Digits per °F in test	= (C)  Volume change in this tank per °F  = 10151056  Volume change per digit	gallons

Range (23 or 248)

Compute to 4 decimal places

LEASE PRINT												
1. OWNER Property	ALASKA M	HRINE LIN	FS 5615	W. MARGINAL Zip Re	WAY SRA	TITE WA						
Tank(s)	Name	Ac	ddress	Zip Re	presentativé	Telephone						
	Name	Ac	ddress	Zip Re	presentative	Telephone						
2. OPERATOR	Saur. Name	Δ/	idress	Zip		Telephone						
0. DEAOON FOR			Juli 635	2.0		Totophone						
3. REASON FOR TEST (Explain Fully)	CHATIFICA	7100										
4. WHO REQUESTED	MISLIR			Company or	RINE LINES	5 4-19.9						
TEST AND WHEN	Name		Title	Company or	Affiliation	Date						
		Ac	dress	Zip	y	Telephone						
E TANK INKOLVED	Identify by Direction	Capacity	Brand/Supplier	Grade	Approx. Age	Steel/Fiberglass						
5. TANK INVOLVED	EAST	3,000	sec	Pegulan	ununon	STL						
Use additional lines						The same of the sa						
for manifolded tanks	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											
	Location	Cover	Fills	Vents	Siphones	Pumps						
6. INSTALLATION	1	Cover	1-4"	1-2"		1- SUCTIO						
DATA	SOUTH LOT		, ,		NONE	1- 30011						
	North inside driveway,	Concrete Black Top.	Size, Titefill make, Drop			Suction, Remote,						
	Rear of station, etc.	Earth etc.	tubes, Remote Fills	Size, Manifolded	Which tanks?	Make if known						
7. UNDERGROUND WATER	Is the water over the tank?											
WAILR	Depth to the water lable fro	om grade VV	*		yes ≥ No							
8. FILL-UP	Tanks to be filledhr Date Arranged by											
ARRANGEMENTS	Name Telephone  Extra product to "top off" and run tank tester. How and who to provide? Consider NO Lead.											
				· · · · · · · · · · · · · · · · · · ·								
	Terminal or other contact for notice or inquiry											
		Company		N	ame	Telephone						
9. CONTRACTOR,												
MECHANICS,												
involved												
	<del>                                     </del>											
10. OTHER INFORMATION												
OR REMARKS				-		***************************************						
	Additional information on a	any items above. Officials or	others to be advised when to	esting is in progress or comple	eted. Visitors or observers pre	esent during test, etc.						
11. TEST METHOD	PETRO TITE		☐ PETRO COM	AP	QUICK CHECK 2000							
		a the above tank system				7. 2000						
11a. TEST RESULTS	Tests were made on the above tank systems in accordance with test procedures prescribed for as detailed on attached test charts with results as follows:											
	Tank Identification	Tight	Leakage Indi		Date Teste							
	3,000 Ragula	NO NO		103 GPH	4.	23-90						
40.054005	12 CONTRACTO	CEDTIEICATION										
12. SENSOR CERTIFICATION	13. CONTRACTOR	RCERTIFICATION										
12. SENSOR CERTIFICATION	13. CONTRACTOR				B & C EQ	UIPMENT						
CERTIFICATION	Tour o	, Cox	516		<b>B &amp; C EQ</b>	<b>UIPMEN</b> 6th Ave						
CERTIFICATION	Technicia	, Cox	5	sating Contractor or	<del></del>	6th Ave (VA 981)						

27. Sensor Calibration 11 541 / 541				PRE	ROSTATIC ESSURE	31. <sub>vo</sub>	LUME MEASUREMEN RECORD TO .001 G/		34.	ERATURE COM USE FACTOR	PENSATION	38. NET VOLUME 39. CHANGING ACCUMULATE		
l	· · · · · · · · · · · · · · · · · · ·	LOG OF TEST PROCEDURES	_	CONTROL  Standpipe Level 32 in Inches						,	EACH READING	CHANGE		
١	28. DATE	Record details of setting up and running test. (Use full	29. Reading				duct in duate	33, Product Replaced (-)	35.	36. Change	37. Computation	Temperature Adjustment		
	4-23-90	length of line if needed.)	No.	Beginning of	Level to which	Before	After	Product	Thermal Sensor	Higher + Lower - (c)	(c) × (a) = Expansion + Contraction -	Volume Minus Expansion (+) or Contraction (-)	At Low Level compute Change per Hour	
ļ	TIME (24 hr.)	Rogalan		Reading	Restored	Reading	Reading	Recovered (+)	Reading		Contraction =	#33(V) — #37(T)	(NFPA criteria)	
		REMOURS DROP TUBE / SE	T- U	Fau	IDMS	/ C	ECKAD	WEL	POLOUI	1	TOPASO	OFF	/	
1		BLES AIR AT Purp												
L	11:00	START CIRCUMTION												
	:25	ADI SAMPLA												
	;30	1ST SEWSOL PROLING			42				10 536				A = 0066	
	: 45	START HIGH LRURL TKST		36.8	YZ.	.940	.640	-,300	547	41/	4,073	-, 373		
L	12:00		2	37.0	42	,640	,370	- 270	<i>5</i> 58	+11	4,013	-,343		
	:15		3	39.0	42	.370	,210	-, 160	567	19	4,059	-,219		
	:30		4	39.8	42	.210	,690	-,120	575	+8	+,053	-,173		
	: 45		5	41,0	42	.550	, 495	-,055	582	+7	4,046	-, 101		
Ī	13:00		6	47.0	42	.495	,495	+.000	590	48	4,053	-, 053		
Ī	:01	DROPITO LOW LEVEL			12		, , , , , , , , , , , , , , , , , , ,							
Ī	: 15	Rubouno	1		12				601					
Ī	;30	Re bound	2		12				613					
Ī														
	:35	IST S MIN RADING	1	17,2	12	.555	,565	+,010	614	+1	+,007	+,003		
	:40	<u> </u>	2	12,2	12	. 565	,575	+,010	618	+4	+,076	-,016		
l	:45		3	12.2	12	.575	1585	+,010	621	+3	4,020	-,010		
	:50		4	12.2	12	. 585	, 595	4.015	625	44	+,026	-,016		
	155		5	12.3	12	595	1610	+,015	629	+4	+,026	-,011		
	14:00		6	12.2	12	,610	,620	+,010	631	12	+,013	-,003	-,053	
	105		2	12.3	12	.620	, 635	+,015	635	+4	+,026	7,011		
- [	;/0		8	12,2	12	,635	,645	+,010	639	+4	t. 026	7,016		
	:15		9	12.2	12_	.645	.655	4.010	643	14	t. 026	-,016		
Î	120		10	17,3	12	. 655	,670	4,015	648	+5	+:033	-, 018		
İ	:25		//	12.2	12	1670	.680	7,010	652	14	+1026	7,016		
f	;30		12	12,2	12	,680	,690	4,010	655	+3	+,020	-,010	-,140	
ı	: 35			17.2	12	.690	,700	4010	658	+3	4,020	-,010		

	:40	14	17,2	12	,700	,710	+,010	660	+2	4013	7,003	
	:45	15	12,2	12	,710	.720	+1010	662	+2	+,013	-,003	
	:50	16	12.3	12	. 720	. 735	+,015	665	+3	4.000	-, 005	
	:55	17	12.3	12	,735	.750			+3	4,020	-,005	
l	15:00	18	1213	12	,750	.765	+,015	671	+3	4,020	-,005	
	705	19	12,3	12	. 765	,780	t.015		+3	+,020	7,005	-176
	:10	20	12,3	12	. 780	,795	4,015	677	13	ti070	7005	
	:15	71	12.3	12	.795	,810	+,015	679	+2	+,013	+,082	
	:20	27	12.3	12	,810	,875	+,015	683	+4	t.026	-, 011	
	: 15	73	12,3	12	,825	.840	4,015	687	+4	4.026	-,011	
	:30	24	12,3	12	,840	,855	4,015	690	13	4,020	-,005	20b
		·										
I							RATA	206	÷Z	= -, 103	GP H	
						-						
					120							
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#### P-T Tank Test Data Chart Additional Info

		-,103
١.	Net Volume Change at Conclusion of Precision Signature of Tester:	Testgph
	Signature of Tester:	
	4-23-90	

2	Statement:	

☐ Tank and product handling system has been tested tight according to the Precision Test Criteria as established by regulatory agency. This is not intended to indicate permission of a leak.

OR

Tank and product handling system has failed the tank tightness test according to the Precision Test Criteria as established by regulatory agency.

OR

Test invalid due to environmental or mechanical factors beyond control of the testing equipment. It is the responsibility of the owner and/or operator of this system to immediately advise state and local authorities of any implied hazard and the possibility of any reportable pollution to the environment as a result of the indicated failure of this system. The manufacturer of this test method does not assume any responsibility or liability for any loss of product to the environment.

Tank Owner/Operator	
Date	

14. ALASKA MARINE LINES		natalitation and the second se	SEATTLE.	ωA	4-23-90
Name of Supplier, Owner or Dealer	Addre	ess No. and Street(s)	City	State	Date of Test
15. TANK TO TEST  FAST  Identity by position	15a. BF	RIEF DIAGRAM OF TANK FIELD	16. CAPACITY  Nominal Capacity 3,000  Gallons		art facturer's Chart ACFL Ingineering Data
Rogulan Brand and Grade			By most accurate capacity chart available Ga	Chama	olied with Tank Tester
17. FILL-UP FOR TEST					Total Gallons ea. Reading
Stick Water Bottom  before Fill-up  to 1/6"	Gallons	7575 in.		Inventory in Tank Water Bottom	3023
AND CONTRACT OF THE PROCESS OF THE P	IDEO TO TEST THE	TANK [7]			
18. SPECIAL CONDITIONS AND PROCEDL	JRES TO TEST THIS		-	Top off equipment	
See manual sections applicable. Check below and record	procedure in log (27).	High water table in tank e		Total Quantity	3028
Use maximum allowable test pressure for all tests. Four pound rule does not apply to doublewalled tanks. Complete section below:		19. TANK MEASUREMENTS F TSTT ASSEMBLY  Bottom of tank to grade*	137	21. VAPOR RECOVERY SY	STEM Stage   Stage
1. Is four pound rule required?	Yes 🔀 No 🗌	Add 30" for "T" probe assy	<u>30</u> <sub>in.</sub>	24b. COEFFICIENT OF EXI RECIPROCAL METHO	D C
2. Height to 12" mark from bottom of tank	2.2.5 in.	20. EXTENSION HOSE SETTIN	<6< 1	Type of Product	Kagulus 6 +
3. Pressure at bottom of tank	4.254 P.S.I.	Extend hose on suction tube 6" or more below tank top	<u>+ 10</u> in.		<u>54,0      </u> ,
4. Pressure at top of tank	4,661 P.S.I.	*If Fill pipe extends above grade, use top	of fill.		51.0 %
Depth of burial	561 <b>5</b> in.	USE WITH THERMAL SENS( PN5039 (Blue Box)	_	Difference (+/-)	-3.0 °,
Tank dia.	75.5 in.	22. Thermal-Sensor reading after circula	ation <u>/0 <b>536</b></u> digits _54 55 °F	Reciprocal 1478 Pag 3078 14	<u>. 62</u> 78 <sub>=</sub> 2,04871
Water table to tank bottom	66 in.	23. Digits per °F in range of expected cl	hange Belween  // // digits	Total quantity in full tank (17)	
NOTES:		24a. IF USING THERMAL S OR QC-2000 WHICH R PER °F TRANSFER 100	EAD 1000 DIGITS 00 TO LINE 26,	24c. FOR TESTING WITH V	
		DIGITS PER °F IN TES	T RANGE.	Water Temperature after Circulation Table C from Thermal Sensor  Coefficient of Water	N'/+
The above calculations are to be used for dry soil of establish a positive pressure advantage, or when using the rule to compensate for the presence of subsurface wat	he four pound			Table D	
area. Refer to N.F.P.A. 30, Sections 2-3.2.4 and 2-7.2 a manufacturer regarding allowable system test pressur		25. (a)  Total quantity in full tank (17)	× (b) Coefficient of expansion for involved product	= (C)  Volume change in this tank per °F	gallons
		26. (a) 2.0 4 87 140 Volume change per °F (25 or 24	<del>/ **</del>	volume change per digit Compute to 4 decimal place	This is A = .006 test s. factor (a)

PLEASE PRINT						
1. OWNER Property Tank(s)	ALIASKA WI Name SAMA Name		#S 56/5 ddress		WAY SEAT	Telephone
2. OPERATOR	S A W.L. Name	A	ddress	Zip		Telephone
3. REASON FOR TEST (Explain Fully)	CFRTIFICAT	70,-				
4. WHO REQUESTED TEST AND WHEN	LFS LIF		Title		e Lines or Affiliation	4-19-90 Date
			·	Zip		Telephone
5. TANK INVOLVED	Identify by Direction WEST	10,000	Brand/Supplier	Grade DIRSAL	Approx. Age  UNICUALU	Steel/Fiberglass 5
Use additional lines for manifolded tanks						
6. INSTALLATION DATA	Location SOUTH LOT	Cover	Fills )- 4 "	Vents /- Z "	Siphones  Non 5	Pumps 1- 5TP
	North inside driveway, Rear of station, etc.	Concrete Black Top, Earth, etc.	Size, Titefill make, Drop tubes, Remote Fills	Size, Manifolded	Which tanks?	Suction, Remote, Make if known
7. UNDERGROUND WATER	Depth to the water table fro	om grade6	<u>6</u>		Is the water over the tan	k?
8. FILL-UP ARRANGEMENTS	į	hrhr and run tank tester. How a	Date Arranged by		Name	Telephone
	Terminal or other contact for notice or inquiry	Compan	у		Name	Telephone
CONTRACTOR,     MECHANICS,     any other contractor     involved						
10. OTHER INFORMATION OR REMARKS					VIII. Laboratoria de la constanta de la consta	
011 11 <u>2111 11110</u>	Additional information on a	any items above. Officials o	r others to be advised when t	esting is in progress or con	npleted. Visitors or observers (	present during test, etc.
11. TEST METHOD	PETRO TITE		PETRO COM	<b>N</b> P	П диіск сні	ECK 2000
11a. TEST RESULTS			ms in accordance with t test charts with results Leakage indi	as follows:	bed for	sted
	10,000 DIESEL	NO		ss GPH		23-90
12. SENSOR CERTIFICATION	13. CONTRACTOR	R CERTIFICATION			B & (	C EQUIPMENT
Date	Technicia		46		1900	9 - 16th Ave. §
Serial No. of Thermal Sensor	Certification # 414 5	512 754	12	nsting Contractor	(20	le, WA 9818≀ 5) 433 1045
	2				Address	

27.	Sensor Calibration 16600 / 601		PR	ROSTATIC ESSURE DNTROL	31. <sub>vo</sub>	LUME MEASUREMEN RECORD TO .001 G/		34. темри	ERATURE COM USE FACTOR	PENSATION I (a)	38. NET VOLUME CHANGING EACH READING	39. ACCUMULATEO CHANGE
28. DATE	Record details of setting up and running test. (Use fulf length of line if needed.)	29. Reading No.	Standpi in In Beginning			duct in duate	33. Product Replaced (-)	35. Thermal	36. Change Higher +	37. Computation (c) × (a) =	Temperature Adjustment Volume Minus	At Low Level compute
4 23 90 TIME (24 hr.)	DIRSEL		of Reading	which Restored	Before Reading	After Reading	Product Recovered (+)	Sensor Reading	Lower - (c)	Expansion + Contraction -	Expansion (+) or Contraction (-) #33(V) — #37(T)	Change per Hour (NFPA criteria)
	REMOURS DEER TUBE /	SET	-up +	lauir	MENT/	CHICK	O WELL	Poin	-/2	SOLATA	O PROL	ucr
	LINE / TOPPLIS OFF	13	Cho	AIR	ATT	URBIR	E PI	SER				
19:30	STANT CIRCULATION											
10:55	API SAMPLE											
11:00	18+ SENSOR REPORT			42				10580				A = . 0150
715	STURT HIGH LAURE TRET	1	496	42	,360	,245	7/15	<b>5</b> 78	-2	7,030	7085	
;30		2	40.6	42	. 245	.135	-,110	578	+0	+,000	-,110	
:45		3	40,5	42	.610	,500	-, 110	579	+1	7,015	-1125	
12:00		4	40,5	42	. 500	.390	-,110	579	+0	+,000	110	
: 15		5	40,7	42	, 390	,290	-100	579	+0	+,000	100	
:30		6	40,7	42	,790	.190	-, 100	580	+1	+,015	-1115	
:45		7	40,6	42	.190	,080	-,110	580	+0	+,000	-,110	
13;00		8	40.8	42	,240	. 160	-,080	581	+1	+,015	-, 095	
:0/	DRUPTO LOW LEVEL			12								
:15	Re bound			12				<b>5</b> 83				
;30	Re bouns	2		12				585				
												,
;35	1ST SMIN READING	1	11,8	12	. 165	.155	7,010	585	+0	+,000	-,610	
:40		2	11,8	12	. 155	, 140	7,015	586	+1	+,015	-,030	
, 45		3	11.8	12	,140	.130	7,010	587	+1	+,015	-,025	
:50	SLIGHT BOUNCE IN S/P	4	11.8	12	, 130	. 115	-,015	588	+1	+,015	7,030	
;55	,	5	11.8	12	,115	.105	7,010	588	+0	+,000	-,010	
14:00		6	11.8	12	,105	.090	-,015	588	+0	+,000	-1015	120
1,05		7	11,8	12	,090	.075	-,015	589	+1	4.015	-,030	
:10		8	11,8	12	. 075	. 060	-,015	589	+0	+,000	-1015	
;15		9	11,7	12	. 380	. 365	-,015	590	+/	t1015	-, 030	
: 20		10	11:7	12	, 365	, 345	7,020	590	+0	+,000	-1020	
725		11	11.7	12	,345	. 325	7020		+0	+.000	-,020	

		12	11,7	12	,325	. 305	7,020	590	+0	+,000	-,020	7,255
	STOPPAD TRST AFFAD	] H	R					KATR		.255	G&H	
				- A A SEAL VIOLE								
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····		2	Statement:	<u> </u>			<u> </u>				be every and/or	

#### P-T Tank Test Data Chart Additional Info

	-,255
•	Net Volume Change at Conclusion of Precision Testgph
	Signature of Tester:
	Date: 4-23.90 V

	product handling		
	to the Precision		
regulatory	agency. This is no	t intended to in	ndicate permission
of a leak.			

OR

Ø	Tank and product handling system has failed the tank tightness
•	test according to the Precision Test Criteria as established by
	regulatory agency.

Test invalid due to environmental or mechanical factors beyond
control of the testing equipment.

It is the responsibility of the owner and/or operator of this system to immediately advise state and local authorities of any implied hazard and the possibility of any reportable pollution to the environment as a result of the indicated failure of this system. The manufacturer of this test method does not assume any responsibility or liability for any loss of product to the environment.

Tank Owner/Operator	
Date	

14. ALASKA MARINE LILLE		SRATTUS	WA	4-23 90
Name of Supplier, Owner or Dealer	Address No. and Street(s)	City	State	Date of Test
15. TANK TO TEST  WEST  Identity by position  DIESEL  Brand and Grade	15a, BRIEF DIAGRAM OF TANK FIELD	16. CAPACITY  Nominal Capacity 10,000  Gallor  By most accurate capacity chart available G	Charte suppl	
17. FILL-UP FOR TEST				Total Gallons ea. Reading
Stick Water Bottom	Gallons 95 in.		Inventory in Tank  Water Bottom	<u>10 310                                  </u>
18. SPECIAL CONDITIONS AND PROCEDURE. See manual sections applicable, Check below and record process.	TP:		Top off equipment Total Quantity	+ <u>10</u> 10, 370
Use maximum allowable test pressure for all tests. Four pound rule does not apply to doublewalled tanks.  Complete section below:	19. TANK MEASUREMENTS TSTT ASSEMBLY Bottom of tank to grade*		21. VAPOR RECOVERY SY	
	Add 30" for "T" probe assy	te	24b. COEFFICIENT OF EXP RECIPROCAL METHOL Type of Product	0
3. Pressure at bottom of tank	Tank top to grade*	63in,	Hydrometer Employed  Temperature in Tank After Circulation  Temperature of Sample	<u>54,2</u> .,
4. Pressure at top of tank  Depth of burial  Tank dia.	USE WITH THERMAL SENS PN5039 (Blue Box)  22. Thermal-Sensor reading after circles	SOR	Difference (+/-)  Observed A.P.I. Gravity  Reciprocal 2208 Page	- 3. 2 . <sub>F</sub> 32. 2
Water table to tank bottom . NOTES:	9 Z in. 23. Digits per °F in range of expected	d change Between digits	Total quantity in Reciprocal full tank (17)	
	24a. IF USING THERMAL OR QC-2000 WHICH PER °F TRANSFER 1 DIGITS PER °F IN TE	READ 1000 DIGITS 1000 TO LINE 26,	24c. FOR TESTING WITH W Water Temperature after Circulation Table C from Thermal Sensor	
The above calculations are to be used for dry soil cond establish a positive pressure advantage, or when using the for rule to compensate for the presence of subsurface water in area.	ur pound		Coefficient of Water Table D	
Refer to N.F.P.A. 30, Sections 2-3.2.4 and 2-7.2 and manufacturer regarding allowable system test pressures.	the tank  25. (a)  Total quantity in full tank (17)  26. (a) 4.673912  Volume change per °F (25 or	x (b) Coefficient of expansion for involved product  2 / / Digits per *F in test Range (23 or 24a)	= (c)  Volume change in this tank per °F  = , 0150 2 8  Volume change per digit Compute to 4 decimal places	test